As the Continents Moved

Imagine you were able to travel in time...you could visit Michigan over its geologic past. Take a little time to visualize what you would see.

1,000,000 years ago	Precambrian times	
1,000,000 years ago	1 recamonan times	
410,000 *********	Davanian Dania d	
410,000 years ago	Devonian Period	
180,000 years ago	Jurassic Period	
100,000 years ago	bullussio i circu	
10 '11'		
10 million years ago	Cenozoic	

Research with Your Group

wel	ou have access to a computer, watch the movement of the continents at <i>The Dynamic Earth</i> osite, http://pubs.usgs.gov/publications/text/dynamic.html . Answer these questions: Areas of the Earth that are now very cold once had fossils of organisms that required warm
	temperatures. How does the simulation of continental drift help explain this?
2.	What happened to Michigan's location during the past 500 million years?
"bo	w go to the <i>Tapestry of Time and Terrain</i> website: http://tapestry.usgs.gov . Click the undaries" area, and then click the Michigan area twice. During what period was most of the bedrock in the Lower Peninsula laid down?
4.	How does the Upper Peninsula differ?
Wit	th your group, find as much information about Michigan's story as you can to fill in the char
bel	

Geologic Time Table

ERA	MILLION		
ETC 1	PERIOD	RECORD OF CHANGE	YEARS
			AGO
OIC	Quaternary Tertiary		1.5
CENOZOIC	Tertiary		65
ERA	Cretaceous		140
MESOZOIC ERA Age of Dinosaurs	Jurassic		180
ME Aş	Triassic		240
ERA Age of Amphibians	Permian		280
ERA Amp	Carboniferous		350
PALEOZOIC ERA Age of Age ss Fishes Ampl	Devonian		410
ALEC	Silurian		440
P, Age of Invertebrates	Ordovician		490
Ag Invert	Cambrian		600
# H	D 1 :		1000
PRECAMBR IAN	Precambrian		3000
PRE			4500

Build a Model

Obtain a piece of tape nine meters long. Mark the tape into nine 1-meter lengths. Each meter represents 500 million years of Earth's history. Mark the last two meters into centimeters. Each centimeter represents 5 million years. Then mark the last two centimeters into millimeters. Each millimeter = 500,000 years. Finally, put as much information as you can about Earth's history in the appropriate areas of your tape.